

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/051890 A1

(51) International Patent Classification⁷: **C07C 229/46**,
233/59, 323/32, C07D 213/38, 277/28, 277/34, 295/13,
307/52, 333/20, 407/12, A61K 31/196, 31/165, 31/341,
31/381, 31/426

13398, Research Triangle Park, NC 27709 (US). **SMAL-
LEY, Terrence, Lee, Jr.** [US/US]; GlaxoSmithKline, Five
Moore Drive, P.O. Box 13398, Research Triangle Park, NC
27709 (US).

(21) International Application Number:
PCT/US2004/038126

(74) Agents: **LEVY, David, J.** et al.; GlaxoSmithKline, Five
Moore Drive, P.O. Box 13398, Research Triangle Park, NC
27709 (US).

(22) International Filing Date:
15 November 2004 (15.11.2004)

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/523,532 19 November 2003 (19.11.2003) US

(71) Applicant (*for all designated States except US*):
SMITHKLINE BEECHAM CORPORATION
[US/US]; One Franklin Plaza, P.O. Box 7929, Philadel-
phia, PA 19101 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **CORBETT, David,**
Francis [GB/GB]; GlaxoSmithKline, New Frontiers Sci-
ence Park N & S, Third Avenue, Harlow Essex CM 19
5AW (GB). **DWORNIK, Kate, Anna** [US/US]; Glaxo-
SmithKline, Five Moore Drive, P.O. Box 13398, Research
Triangle Park, NC 27709 (US). **GARRIDO, Dulce, Maria**
[US/US]; GlaxoSmithKline, Five Moore Drive, P.O. Box
13398, Research Triangle Park, NC 27709 (US). **MCKE-
OWN, Stephen, Carl** [GB/GB]; GlaxoSmithKline, New
Frontiers Science Park N & S, Third Avenue, Harlow Essex
CM 19 5AW (GB). **MILLS, Wendy, Yoon** [US/US]; Glaxo-
SmithKline, Five Moore Drive, P.O. Box 13398, Research
Triangle Park, NC 27709 (US). **PEAT, Andrew, James**
[US/US]; GlaxoSmithKline, Five Moore Drive, P.O. Box

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

WO 2005/051890 A1

(54) Title: AMINOPHENYLCYCLOPROPYL CARBOXYLIC ACIDS AND DERIVATIVES AS AGONISTS TO GPR40

(57) Abstract: The present invention relates generally to novel therapeutic compounds and more particularly to novel compounds, their use as GPR40 agonists, processes for their manufacture, and intermediates useful in their preparation.